

# KPC-1260 Series

12.1" Industrial Panel PC with Intel® BayTrail Processors

## User's Guide



# Content

Content.....	2
Figures & Tables.....	3
Safety Instructions.....	4
<input type="checkbox"/> Before You Begin .....	4
<input type="checkbox"/> When Working Inside a Computer .....	4
<input type="checkbox"/> Preventing Electrostatic Discharge .....	5
<input type="checkbox"/> Instructions for Lithium Battery .....	6
Preface.....	7
<input type="checkbox"/> How to Use This Guide .....	7
<input type="checkbox"/> Unpacking.....	7
<input type="checkbox"/> Regulatory Compliance Statements.....	7
<input type="checkbox"/> Maintaining Your Computer.....	8
Chapter 1 Introduction .....	10
<input type="checkbox"/> Overview.....	10
<input type="checkbox"/> Product Specifications .....	11
<input type="checkbox"/> System tour.....	12
Mechanical Dimensions .....	14
Chapter 2 Getting Started .....	15
<input type="checkbox"/> Setting up your PC.....	15
<input type="checkbox"/> VESA Mounting.....	19
<input type="checkbox"/> Panel Mounting.....	20
Chapter 3 AMI BIOS Setup.....	22
<input type="checkbox"/> Overview.....	22
<input type="checkbox"/> Main Menu .....	23
<input type="checkbox"/> Advanced Menu .....	24
<input type="checkbox"/> Boot Menu .....	33
<input type="checkbox"/> Security Menu.....	34
<input type="checkbox"/> Save & Exit Menu .....	35
Chapter 4 Driver Installation .....	37

## Figures & Tables

Figure 1 I/Os .....	12
Figure 2 Mechanical Dimensions .....	14
Figure 3 VGA/ HDMI .....	15
Figure 4 Connect USB mouse & keyboard .....	16
Figure 5 RJ45 connector.....	16
Figure 6 COM ports .....	17
Figure 7 Turning on the system .....	18
Figure 8 VESA Mounting Hole Locations .....	19
Figure 9 Panel Mount Cut-out hole and maximum panel thickness .....	20
Figure 10 Panel Mounting.....	21

Table 1 KPC-1260 product specifications .....	11
Table 2 BIOS Main Menu .....	23
Table 3 Advanced Menu.....	24
Table 4 Advanced Menu – Display Configuration.....	25
Table 5 Advanced Menu –Power Management Configuration.....	26
Table 6 Advanced Menu –CPU Advanced Configuration .....	27
Table 7 Advanced Menu –SATA Configuration .....	28
Table 8 Advanced Menu –USB Configuration .....	29
Table 9 Advanced Menu – Super IO Configuration .....	29
Table 10 Advanced Menu – Super IO Configuration – Serial Port 1 Configuration .....	30
Table 11 Advanced Menu – Super IO Configuration – Serial Port 2 Configuration .....	31
Table 12 Advanced Menu –H/W Monitor .....	32
Table 13 Boot Menu .....	33
Table 14 Security Menu .....	34
Table 15 Save & Exit Menu .....	35

# Safety Instructions

## ■ Before You Begin

Before handling the product, read the instructions and safety guidelines on the following pages to prevent damage to the product and to ensure your own personal safety. Refer to the “Advisories” section in the Preface for advisory conventions used in this user’s guide, including the distinction between Warnings, Cautions, Important Notes, and Notes.

- Always use caution when handling/operating a computer. Only qualified, experienced, authorized electronics service personnel should access the interior of a computer. The power supplies produce high voltages and energy hazards, which can cause bodily harm.
- Use extreme caution when installing or removing components. Refer to the installation instructions in this user’s guide for precautions and procedures. If you have any questions, please contact our Post-Sales Technical Support.
- Access can only be gained by service persons or by users who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken; and access is through the use of a tool or lock and key, or other means of security, and is controlled by authority responsible for the location.

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### WARNING



High voltages are present inside the chassis when the unit’s power cord is plugged into an electrical outlet. Turn off system power, turn off the power supply, and then disconnect the power cord from its source before removing the chassis cover. Turning off the system power switch does not remove power to components.

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## ■ When Working Inside a Computer

Before taking covers off a computer, perform the following steps:

1. Turn off the computer and any peripherals.

2. Disconnect the computer and peripherals from their power sources or subsystems to prevent electric shock or system board damage. This does not apply when hot swapping parts.
3. Follow the guidelines provided in “Preventing Electrostatic Discharge” on the following page.
4. Disconnect any telephone or telecommunications lines from the computer.

In addition, take note of these safety guidelines when appropriate:

- To help avoid possible damage to system boards, wait five seconds after turning off the computer before removing a component, removing a system board, or disconnecting a peripheral device from the computer.
- When you disconnect a cable, pull on its connector or on its strain-relief loop, not on the cable itself. Some cables have a connector with locking tabs. If you are disconnecting this type of cable, press in on the locking tabs before disconnecting the cable. As you pull connectors apart, keep them evenly aligned to avoid bending any connector pins. Also, before connecting a cable, make sure both connectors are correctly oriented and aligned.

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### CAUTION



Do not attempt to service the system yourself except as explained in this user's guide. Follow installation and troubleshooting instructions closely.

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## ■ Preventing Electrostatic Discharge

Static electricity can harm system boards. Perform service at an ESD workstation and follow proper ESD procedure to reduce the risk of damage to components. We strongly encourage you to follow proper ESD procedure, which can include wrist straps and smocks, when servicing equipment.

You can also take the following steps to prevent damage from electrostatic discharge (ESD):

- When unpacking a static-sensitive component from its shipping carton, do not remove the component's antistatic packing material until you are ready to install the component in a computer. Just before unwrapping the antistatic packaging, be sure you are at an ESD workstation or grounded. This will discharge any static electricity that may have built up in your body.
- When transporting a sensitive component, first place it in an antistatic container or packaging.

- Handle all sensitive components at an ESD workstation. If possible, use antistatic floor pads and workbench pads.
- Handle components and boards with care. Don't touch the components or contacts on a board. Hold a board by its edges or by its metal mounting bracket.
- Do not handle or store system boards near strong electrostatic, electromagnetic, magnetic, or radioactive fields.

## ■ Instructions for Lithium Battery



### WARNING

Danger of explosion when battery is replaced with incorrect type. Only replace with the same or equivalent type recommended by the manufacturer.

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Do not dispose of lithium batteries in domestic waste. Dispose of the battery according to the local regulations dealing with the disposal of these special materials (e.g. to the collecting points for disposal of batteries)

# Preface

## ■ How to Use This Guide

This guide is designed to be used as step-by-step instructions for installation, and as a reference for operation, troubleshooting, and upgrades.

## ■ Unpacking

When unpacking, follow these steps:

1. After opening the box, save it and the packing material for possible future shipment.
2. Remove all items from the box. If any items listed on the purchase order are missing, notify Our customer service immediately.
3. Inspect the product for damage. If there is damage, notify Our customer service immediately. Refer to “Warranty Policy” for the return procedure.

## ■ Regulatory Compliance Statements

This section provides the FCC compliance statement for Class A devices.

### **FCC Compliance Statement:**

This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reason able protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radiofrequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by us could void the user's authority to operate the equipment.

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### NOTE



The assembler of a personal computer system may be required to test the system and/or make necessary modifications if a system is found to cause harmful interference or to be noncompliant with the appropriate standards for its intended use.

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## ■ Maintaining Your Computer

### Environmental Factors

#### ■ Temperature

The ambient temperature within an enclosure may be greater than room ambient temperature. Installation in an enclosure should be such that the amount of air flow required for safe operation is not compromised.

Consideration should be given to the maximum rated ambient temperature. Overheating can cause a variety of problems, including premature aging and failure of chips or mechanical failure of devices.

If the system has been exposed to abnormally cold temperatures, allow a two-hour warm-up period to bring it up to normal operating temperature before turning it on. Failure to do so may cause damage to internal components, particularly the hard disk drive.

#### ■ Humidity

High-humidity can cause moisture to enter and accumulate in the system. This moisture can cause corrosion of internal components and degrade such properties as electrical resistance and thermal conductivity. Extreme moisture buildup inside the system can result in electrical shorts, which can cause serious damage to the system.

Buildings in which climate is controlled usually maintain an acceptable level of humidity for system equipment. However, if a system is located in an unusually humid location, a dehumidifier can be used to maintain the humidity within an



acceptable range. Refer to the “Specifications” section of this user’s guide for the operating and storage humidity specifications.

### **Power Protection**

The greatest threats to a system’s supply of power are power loss, power spikes, and power surges caused by electrical storms, which interrupt system operation and/or damage system components. To protect your system, always properly ground power cables and one of the following devices.

#### ■ **Surge Protector**

Surge protectors are available in a variety of types and usually provide a level of protection proportional with the cost of the device. Surge protectors prevent voltage spikes from entering a system through the AC power cord. Surge protectors, however, do not offer protection against brownouts, which occur when the voltage drops more than 20 percent below the normal AC line voltage level.

#### ■ **Line Conditioner**

Line conditioners go beyond the overvoltage protection of surge protectors. Line conditioners keep a system’s AC power source voltage at a fairly constant level and, therefore, can handle brownouts. Because of this added protection, line conditioners cost more than surge protectors. However, line conditioners cannot protect against a complete loss of power.

#### ■ **Uninterruptible Power Supply**

Uninterruptible power supply (UPS) systems offer the most complete protection against variations on power because they use battery power to keep the server running when AC power is lost. The battery is charged by the AC power while it is available, so when AC power is lost, the battery can provide power to the system for a limited amount of time, depending on the UPS system.

UPS systems range in price from a few hundred dollars to several thousand dollars, with the more expensive units allowing you to run larger systems for a longer period of time when AC power is lost. UPS systems that provide only 5 minutes of battery power let you conduct an orderly shutdown of the system, but are not intended to provide continued operation. Surge protectors should be used with all UPS systems, and the UPS system should be Underwriters Laboratories (UL) safety approved.

# Chapter 1

## Introduction

### ■ Overview

The KPC-1260 Panel PCs is supporting Intel® BayTrail Processors. Featured are DDR3L SODIMM, Storage includes a 2.5" SATA hard drive or a solid-state drive (SSD), and slim optical drive. Supported interfaces include 2x GbE LAN, HD audio, 2x COM, 4x USB 2.0 ports, 1x USB 3.0, VGA and HDMI, thus easily meeting a broad range of customer requirements. The KPC series provide a compact, high performance human-machine interface, with optimal shock, vibration and temperature resistance for tough industrial demands.

### Checklist

- KPC-1260
- Power Adapter
- Power Cord
- Driver CD
- Quick installation Guide
- Optional VESA Mounting Kit
- Optional wireless LAN

### Features

- 12.1" LCD Display with 1024x768 resolution
- Intel® BayTrail processors
- Intel® HD Graphics
- DDR3L SO-DIMM up to 4GB
- 1x HDMI, 1x VGA
- 2x GbE, 2x COM, 4x USB 2.0, 1x USB 3.0, 1x Mini-PCIe slot
- Fanless design

## ■ Product Specifications

CPU Support	Intel® Atom™ BayTrail processors
Memory	1x Single Channel DDR3L SODIMM support (4GB max)
BIOS	AMI Plug & Play SPI BIOS
Graphic	Intel® HD Graphics
Display Size	12.1 inch, 4:3
Resolution	1024 x 768
Backlight	LED
Contrast Ratio	1000:1 (typical)
Brightness	500cd/m <sup>2</sup> (typical)
Touch Sensor	5-wire resistive touch sensor
External Display	1x HDMI 1x VGA
LAN	2x Gigabit Ethernet (Realtek RTL8111G) PXE/WOL supported
Audio	Realtek ALC662 HD Codec w/ 2W Audio Amplifier Mic-In, Line-In, Line-Out Supported
Storage	1x 2.5" SATA HDD or SSD space
USB	4 x USB 2.0 1x USB 3.0
COM	2x COM ports with RS-232/422/485 selection supported
Expansion slot	1x Mini-PCIe slot
Hardware Monitor	Operating voltage, CPU temperature
Watchdog Timer	1-255 step, can be set with software on Super I/O
Power	DC 12V Input
OS Support	Windows 7, Windows 8
Dimensions	343mm x 269 mm x 57.5mm (WxHxD)
Environment	Operation Temp: 0°C to 60°C (CF, SSD), 0°C to 50°C (2.5" HDD) Storage Temp.: -20°C to 60°C, Humidity: 0% - 95%
Certification	CE, FCC Class A

Table 1 KPC-1260 product specifications

## ■ System tour

Refer to the diagrams below to identify the components of the system.

### ■ 1030 I/Os

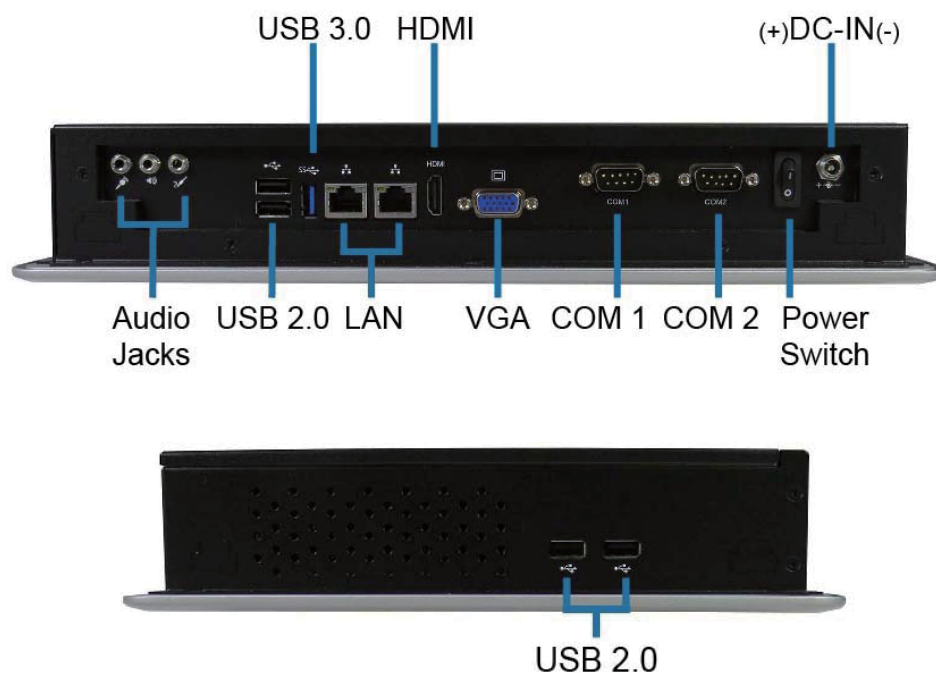


Figure 1 I/Os

### USB

The USB (Universal Serial Bus) port is compatible with USB devices such as keyboards, mouse devices, cameras, and hard disk drives. USB allows many devices to run simultaneously on a single computer, with some peripheral acting as additional plug-in sites or hubs.

### Power Switch

The power switch allows powering ON and OFF the system.

### Ethernet

The eight-pin RJ-45 LAN port supports a standard Ethernet cable for connection to a local network.

### Power Input

The supplied power adapter converts AC power to DC for use with this jack.

Power supplied through this jack supplies power to the PC. To prevent damage to the PC, always use the supplied power adapter.

### **DP**

DP is a display interface used to connect a video source to a display device such as a computer monitor or a television set.

### **HDMI**

HDMI connector for display output

### **VGA**

D-Sub 15 pin VGA connector for display output

### **COM**

D-Sub 9 pin connector for RS-232/422/485 connection

### **Line-Out (Green)**

The stereo headphone jack is used to connect the system's audio out signal to amplified speakers or headphones.

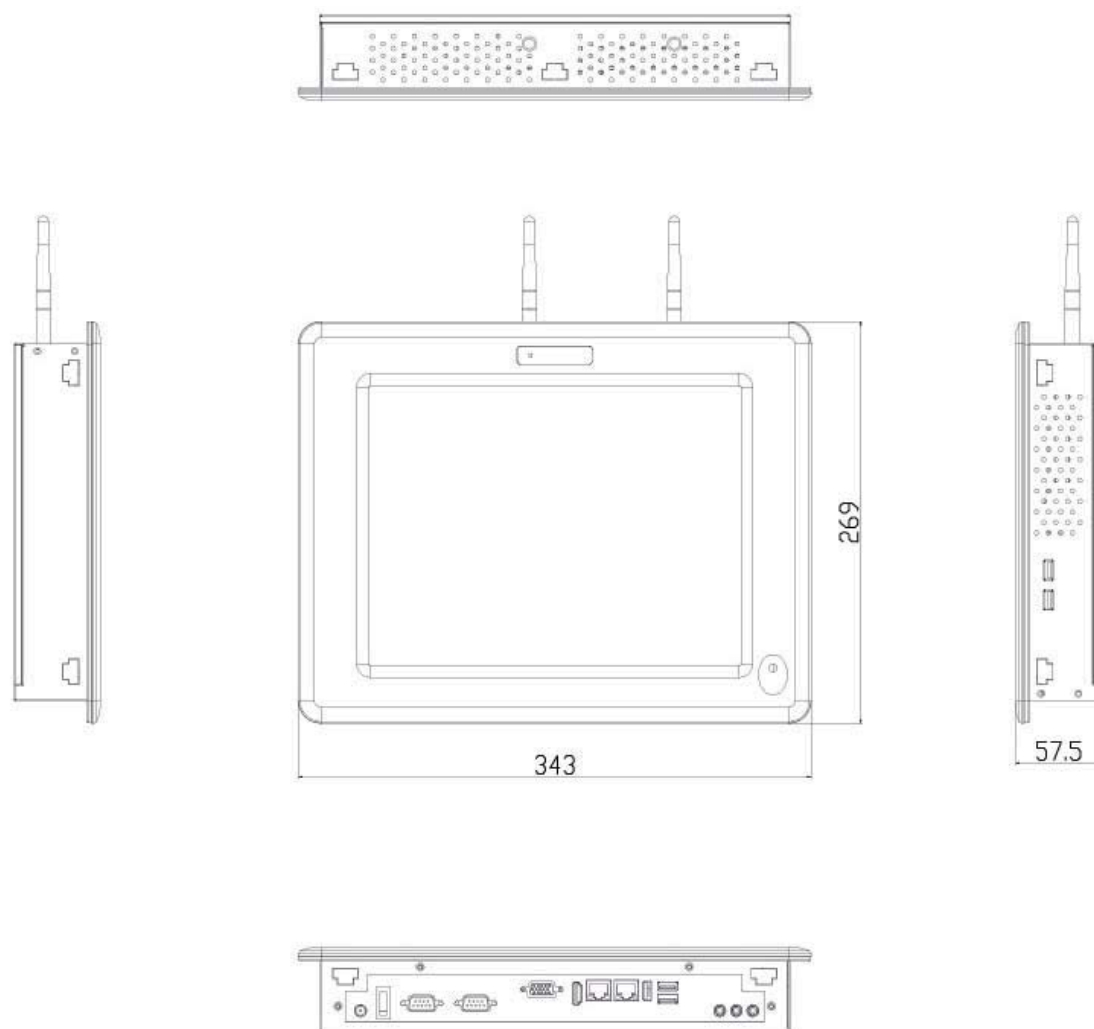
### **MIC-IN (Pink)**

The microphone jack is designed to connect the microphone used for video conferencing, voice narrations, or simple audio recordings.

### **Line-IN (Blue)**

The Line-in jack is designed to take input from a higher-powered sound source.

## Mechanical Dimensions



KPC-1260: 343 x 269 x 57.5 mm (W x H x D)

Figure 2 Mechanical Dimensions

## Chapter 2

# Getting Started

### ■ Setting up your PC

#### ■ Connecting the monitor

Connect the VGA/ HDMI cable from your display to the VGA/ HDMI port.

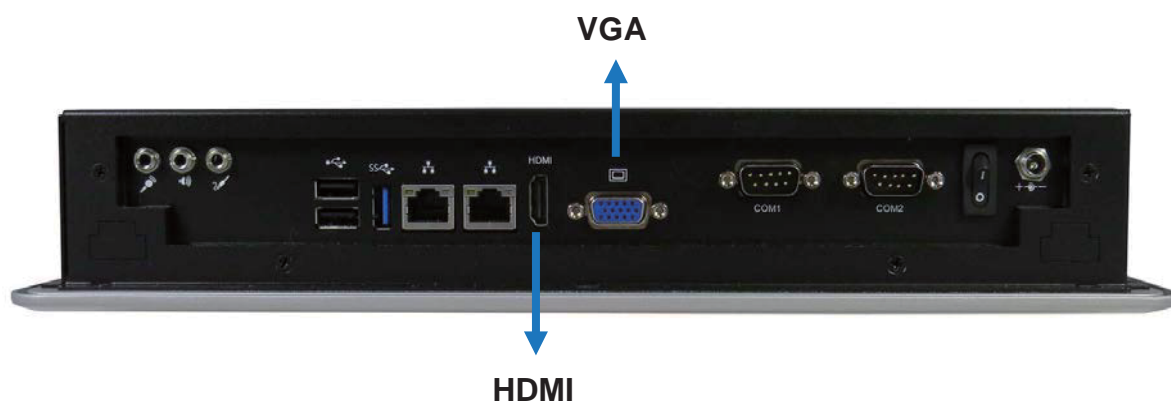


Figure 3 VGA/ HDMI

### ■ Connecting USB mouse & keyboard

Your KPC-1260 does not come with a keyboard and mouse, but you can use any USB keyboard or mouse with your computer.

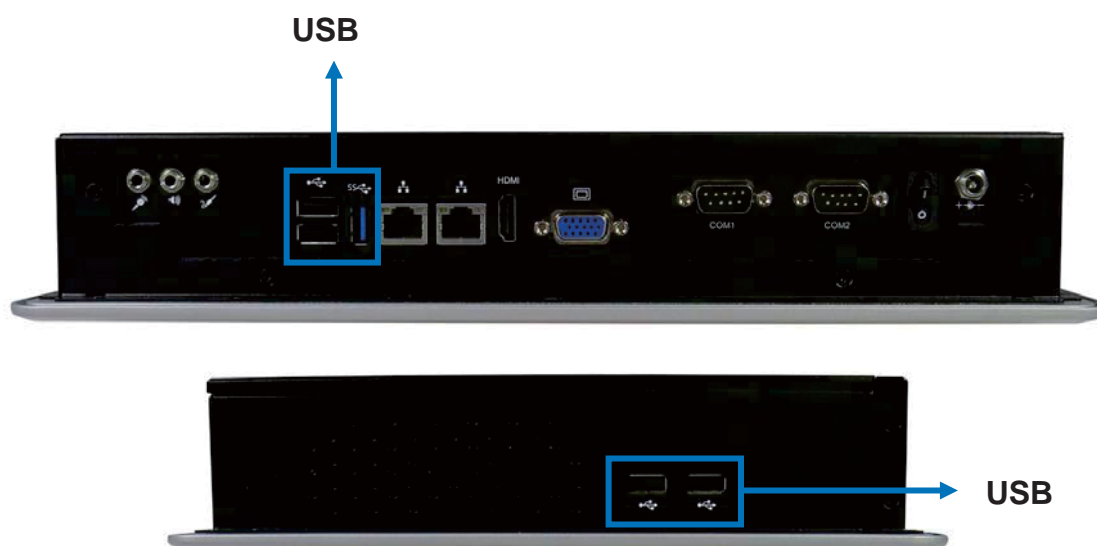


Figure 4 Connect USB mouse & keyboard

#### NOTE



Using a third-party USB mouse or keyboard may require software drivers. Check the manufacturer's website for the latest software drivers.

### ■ Connecting to a network device

Connect one end of a network cable to the LAN port on the system rear panel and the other end to a hub or switch.

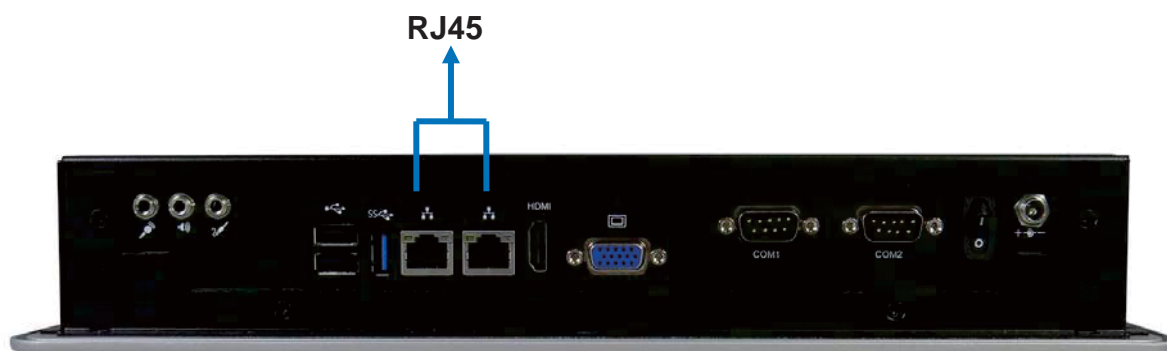


Figure 5 RJ45 connector

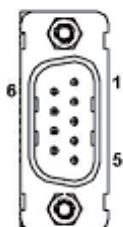


## ■ COM ports

COM ports with the pin definitions.



COM1~2 RS-232/422/485



Pin	RS-232	RS-422	Half Duplex RS-485	Full Duplex RS-485
1	DCD	TX-	DATA-	TX-
2	RXD	TX+	DATA+	TX+
3	TXD	RX+	N/A	RX+
4	DTR	RX-	N/A	RX-
5	GND	GND	GND	GND
6	DSR	N/A	N/A	N/A
7	RTS	N/A	N/A	N/A
8	CTS	N/A	N/A	N/A
9	+5V	+5V	+5V	+5V

Figure 6 COM ports

## ■ Turning on the system

1. Connect the power adapter cable to the DC jack (DC IN) of the KPC-1260
2. Connect the power cable to the power adapter
3. Connect the power cable to a power outlet
4. Press the power switch on the front panel to turn on the system



Figure 7 Turning on the system

## ■ VESA Mounting

The product comes with VESA FDMI 75/100 standard mounting holes as shown below. Use 4 screws with the appropriate length for your mounting bracket.

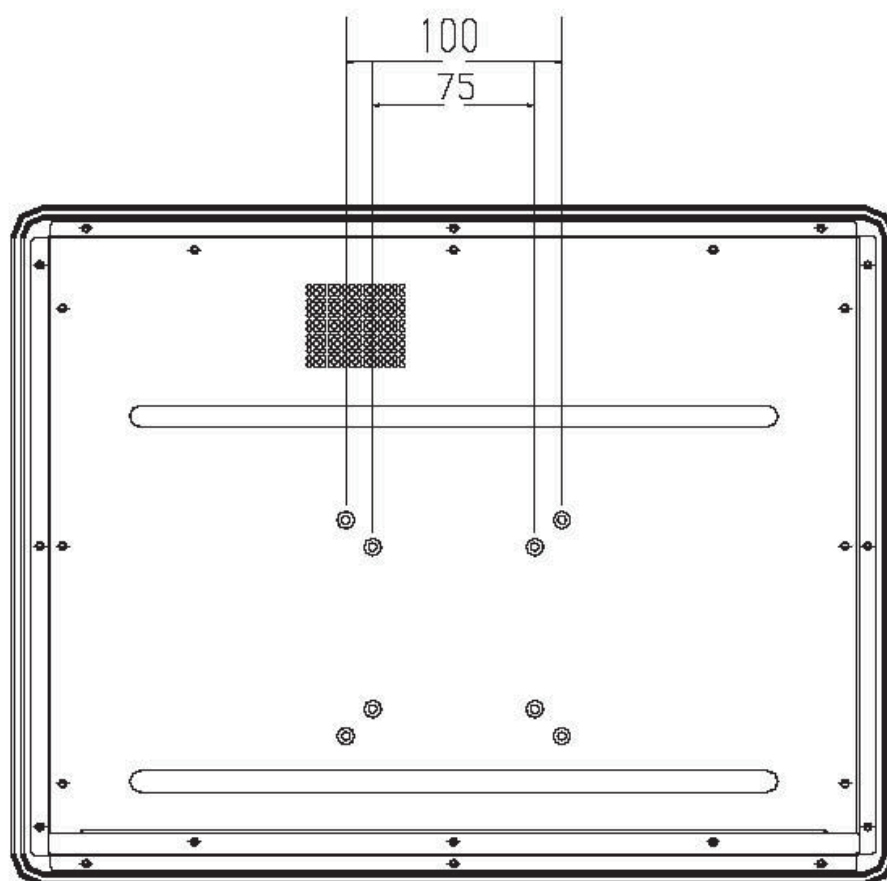


Figure 8 VESA Mounting Hole Locations

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### NOTE



To fasten the metal shelf, your monitor must comply with VESA75 or VESA100 standard. The VESA mounting kit is optional.

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## ■ Panel Mounting

The Panel PC can be panel mounted and comes with brackets and screws for this purpose. The required cutout for panel mounting and maximum panel thickness is shown below.

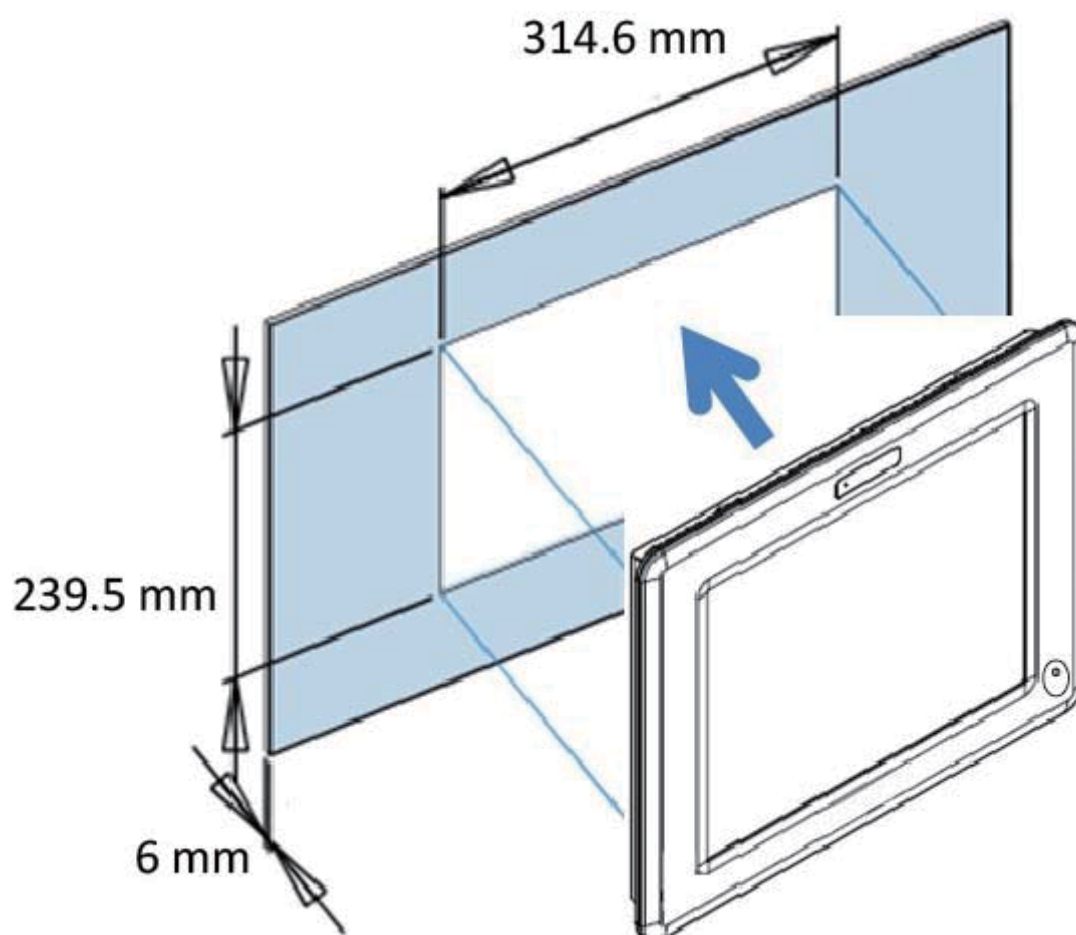
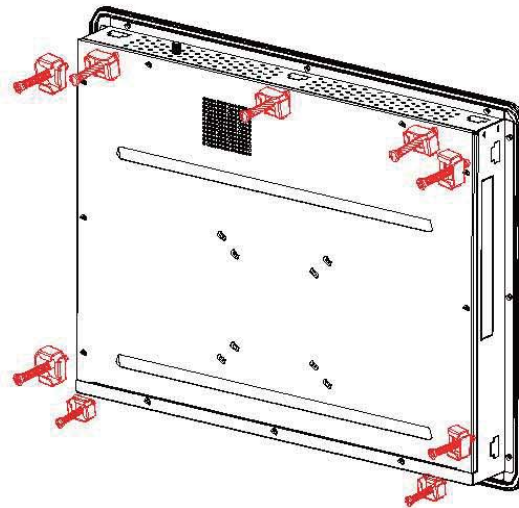


Figure 9 Panel Mount Cut-out hole and maximum panel thickness

- Below are the demonstrations of how to do panel mounting.

### Step1

Tightening the screws as shown right.



### Step2

Done

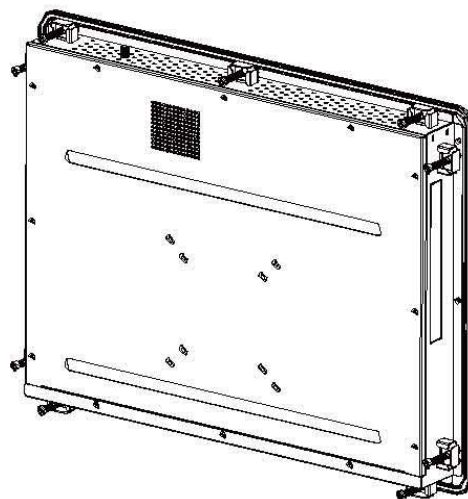


Figure 10

## Chapter 3

# AMI BIOS Setup

### ■ Overview

This chapter provides a description of the AMI BIOS. The BIOS setup menus and available selections may vary from those of your product. For specific information on the BIOS for your product, please contact us.



**NOTE:** The BIOS menus and selections for your product may vary from those in this chapter. For the BIOS manual specific to your product, please contact us

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AMI's ROM BIOS provides a built-in Setup program, which allows the user to modify the basic system configuration and hardware parameters. The modified data will be stored in a battery-backed CMOS, so that data will be retained even when the power is turned off. In general, the information saved in the CMOS RAM will not need to be changed unless there is a configuration change in the system, such as a hard drive replacement or when a device is added.

It is possible for the CMOS battery to fail, which will cause data loss in the CMOS only. If this happens you will need to reconfigure your BIOS settings.

## ■ Main Menu

The BIOS Setup is accessed by pressing the DEL key after the Power-On Self-Test (POST) memory test begins and before the operating system boot begins. Once you enter the BIOS Setup Utility, the Main Menu will appear on the screen. The Main Menu provides System Overview information and allows you to set the System Time and Date. Use the “<” and “>” cursor keys to navigate between menu screens.

Table 2 BIOS Main Menu

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
Product Information			<div>→ ← Select Screen</div> <div>↑↓ Select Item</div> <div>Enter: Select</div> <div>+ - Change Opt.</div> <div>F1: General Help</div> <div>F2: Previous Values</div> <div>F3: Optimized Defaults</div> <div>F4 Save &amp; Exit</div> <div>ESC Exit</div>	
Product Name		KPC-1260		
BIOS Version		R0.0A (x64)		
BIOS Build Date		05/26/2014		
ME FW Version		01.01.00.1089		
CPU Information		Intel® Celeron® CPU J1900@1.99GHz		
Microcode Revision		809		
Processor Cores		4		
Memory Information				
Total Size		4096 MB (DDR3L)		
Frequency		1333 MHz		
System date		[Mon 05/26/2014]		
System time		[13:23:12]		
Access Level		Administrator		
Version 2.16.1242. Copyright (C) 2013, American Megatrends, Inc.				

## ■ Advanced Menu

Table 3 Advanced Menu

BIOS SETUP UTILITY		
Main	Advanced	Boot Security Server Mgmt Save & Exit
Onboard LAN1 Controller	[Enabled]	
Onboard LAN1 Boot	[Disabled]	
Onboard LAN2 Controller	[Enabled]	
Onboard LAN2 Boot	[Disabled]	
Audio Controller	[Enabled]	
> Display Configuration > Power Management Configuration > CPU Advanced Configuration > SATA Configuration > USB Configuration > Super IO Configuration > H/W Monitor		→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
Version 2.16.1242. Copyright (C) 2013, American Megatrends, Inc.		

### Onboard LAN 1 Controller

Options: Disabled, Enabled

### Onboard LAN 1 Boot

Options: Disabled, Enabled

### Onboard LAN 2 Controller

Options: Disabled, Enabled

### Onboard LAN 2 Boot

Options: Disabled, Enabled

### Audio Controller

Options: Disabled, Enabled



Table 4 Advanced Menu – Display Configuration

BIOS SETUP UTILITY					
Main	Advanced	Boot	Security	Server Mgmt	Save & Exit
Display Configuration				<div>→ ← Select Screen</div> <div>↑↓ Select Item</div> <div>Enter: Select</div> <div>+ - Change Opt.</div> <div>F1: General Help</div> <div>F2: Previous Values</div> <div>F3: Optimized Defaults</div> <div>F4 Save &amp; Exit</div> <div>ESC Exit</div>	
Primary Display		[ Auto ]			
UMA Frame Buffer Size		[256 MB]			
DVMT Pre-Allocated		[64M]			
DVMT Total Gfx Mem		[256 M]			
Primary IGFX Boot Display		[VBIOS Default]			
Active LVDS		[Disabled]			
Display Configuration					
Primary Display		[ Auto ]			
UMA Frame Buffer Size		[256 MB]			
DVMT Pre-Allocated		[64M]			
Version 2.16.1242. Copyright (C) 2013, American Megatrends, Inc.					

**Primary Display**

Options: Auto, IGD

**UMA Frame Buffer Size**

Options: 128MB, 256MB, 512MB

**DVMT Pre-Allocated**

Options: 64M, 96M, 128M, 160M, 192M, 224M, 256M, 288M, 320M, 352M, 384M, 416M, 448M, 480M, 512M

**DVMT Total Gfx Mem**

Options: 128M, 256M, MAX

**Primary IGFX Boot Display**

Options: VBIOS Default, CRT, HDMI, LVDS

**Active LVDS**

Options: Disabled, Enabled

**LVDS Panel Type**

Options: 640x480 18Bit 1CH ; 800x480 18Bit 1CH; 800x600 18Bit 1CH; 1024x768 18Bit 1CH; 1440x900 18Bit 1CH; 1600x900 18Bit 1CH;

**LVDS Backlight Control Mode**

Options: Valtage ; PWM

**LVDS Backlight Control -Voltage**

Options: 0.0V ; 0.5V ; 1.0V ; 1.5V ; 2.0V ; 2.5V ; 3.0V ; 3.5V ; 4.0V ; 4.5V ; 5.0V

Table 5 Advanced Menu –Power Management Configuration

BIOS SETUP UTILITY		
Main	Advanced	Boot Security Server Mgmt Save & Exit
Power Management Configuration		
ACPI Sleep State	[S3 (Suspend to RAM)]	
Restore AC Power Loss	[Power Off]	
Power Saving Mode	[Disabled]	
Resume Event control		
Resume From S3 By PS/2 Keyboard	[Disabled]	
Resume From S3 By PS/2 Mouse	[Disabled]	
		→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
Version 2.16.1242. Copyright (C) 2013, American Megatrends, Inc.		

**ACPI Sleep State**

Options: Suspend Disabled, S1 (CPU Stop Clock), S3 (Suspend to RAM)

**Restore AC Power Loss**

Options: Power Off, Power On, Last State

**Resume From S3 By PS/2 Keyboard**

Options: Disabled, Enabled

**Resume From S3 By PS/2 Mouse**

Options: Disabled, Enabled

**Resume By PCIE Device**

Options: Disabled, Enabled

**Resume By RTC Alarm**

Options: Disabled, Enabled

**EUP Power Saving Mode**

Options: Disabled, Enabled

**Watchdog Timer Configuration**■ **WDT Function** [Disabled]

Options: Disabled, Enabled

Table 6 Advanced Menu –CPU Advanced Configuration

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
CPU Chipset Configuration				
EIST		[Enabled]		
Limit CPUID Maximum		[Disabled]		
Execute Disable Bit		[Enabled]		
Intel Virtualization Technology		[Disabled]		
				→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
Version 2.16.1242. Copyright (C) 2013, American Megatrends, Inc.				

**EIST**

Options: Disabled, Enabled

**Limit CPUID Maximum**

Options: Disabled, Enabled

**Execute Disable Bit**

Options: Disabled, Enabled

**Intel® Virtualization Tech**

Options: Disabled, Enabled

Table 7 Advanced Menu –SATA Configuration

BIOS SETUP UTILITY			
Main	Advanced	Boot	Security
SATA Controller(s)			→ ← Select Screen
Serial-ATA (SATA)			↑↓ Select Item
SATA Mode			Enter: Select
Serial ATA Port 1			+ - Change Opt.
Port 1			F1: General Help
mSATA Port 1			F2: Previous Values
Port 1			F3: Optimized Defaults
			F4 Save & Exit
			ESC Exit
Version 2.16.1242. Copyright (C) 2013, American Megatrends, Inc.			

**SATA**

Options: Disabled, Enabled

**SATA Mode**

Options: IDE Mode, AHCI Mode

**Port 1**

Options: Disabled, Enabled

Table 8 Advanced Menu –USB Configuration

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
USB Configuration  USB Devices: 1 Keyboard, 2 Hubs  Legacy USB Support                    [Enabled] xHCI Legacy Support                    [Enabled] xHCI hand-off                          [Enabled] EHCI Hand-off                          [Disabled] USB Mass Storage Driver Support      [Enabled] XHCI Mode                          [Smart Auto]			→ ← Select Screen	
			↑↓ Select Item	
			Enter: Select	
			+- Change Opt.	
			F1: General Help	
			F2: Previous Values	
			F3: Optimized Defaults	
			F4 Save & Exit	
			ESC Exit	
Version 2.16.1242. Copyright (C) 2013, American Megatrends, Inc.				

**Legacy USB Support**

Options: Disabled, Enabled, Auto

**EHCI hand-off**

Options: Disabled, Enabled

**Mass Storage Device**

Options: Auto, Floppy, Forced FDD, Hard Disk, CD-ROM

Table 9 Advanced Menu – Super IO Configuration

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
Super IO Configuration  >Serial Port 1 Configuration >Serial Port 2 Configuration			→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit	
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Table 10 Advanced Menu – Super IO Configuration – Serial Port 1 Configuration

BIOS SETUP UTILITY						
Main	Advanced	Boot	Chipset	Power	Security	Exit
Serial Port 1 Configuration					→←: Select Screen	
Serial Port					↑↓: Select Item	
Device Settings					Enter: Select	
Change Settings					+/-: Change Opt.	
Serial Port 1 Type					F1: General Help	
RS485 Duplex Mode					F2: Previous Values	
					F3: Optimized Defaults	
					F4: Save and Exit	
					ESC: Exit	
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**Serial Port**

Options: Disabled, Enabled

**Change Settings**

Options: Auto,

IO=3F8h; IRQ=4;

IO=3F8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=2F8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=3E8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=2E8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

**Serial Port Type**

Options: RS232, RS422, RS485

**RS485 Duplex Mode**

Options: Full Duplex; Half Duplex

Table 11 Advanced Menu – Super IO Configuration – Serial Port 2 Configuration

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
Serial Port 2 Configuration				
Serial Port Device Settings		[Enabled] IO=2F8h; IRQ=3;	→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit	
Change Settings		[Auto]		
Serial Port 2 Type		[RS485]		
RS485 Duplex Mode		[Half Duplex]		
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**Serial Port**

Options: Disabled, Enabled

**Change Settings**

Options: Auto,

IO=2F8h; IRQ=3;

IO=3F8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=2F8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=3E8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=2E8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12

**Serial Port Type**

Options: RS232, RS422, RS485

**RS485 Duplex Mode**

Options: Full Duplex; Half Duplex

Table 12 Advanced Menu –H/W Monitor

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
PC Health Status			→ ← Select Screen	
CPU Warning Temperature		[ Disabled ]	↑↓ Select Item	
>CPU FAN Configuration			Enter: Select	
CPU Temperature		: +40 C	+- Change Opt.	
System Temperature		: +39 C	F1: General Help	
CPU Fan Speed		N/A	F2: Previous Values	
+VCORE		: +0.773 V	F3: Optimized Defaults	
+VIN		: +12.268 V	F4 Save & Exit	
+5V		: +5.066 V	ESC Exit	
+VMEN		: +1.357 V		
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**CPU Warning Temperature**

Options: Disabled, 80, 85, 90, 95

**CPU FAN Configuration****FAN Setting [Manual Mode]**

Options: Manual Mode, Auto Mode

**Manual Duty 255**



## ■ Boot Menu

Table 13 Boot Menu

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
<div>Boot Configuration</div> <div>Full Screen LOGO Display [Disabled]</div> <div>Setup Prompt Timeout 1</div> <div>Bootup NumLock State [On]</div> <div>Keyboard Detect Warning [Enabled]</div> <div>CSM Support [Enabled]</div> <div>Boot Option Filter [Legacy Only]</div> <div>Boot Option Priorities</div> <div>Boot Configuration</div> <div>Full Screen LOGO Display [Disabled]</div>			<div>→ ← Select Screen</div> <div>↑↓ Select Item</div> <div>Enter: Select</div> <div>+ - Change Opt.</div> <div>F1: General Help</div> <div>F2: Previous Values</div> <div>F3: Optimized Defaults</div> <div>F4 Save &amp; Exit</div> <div>ESC Exit</div>	
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### Full Screen LOGO Display

Options: Disabled, Enabled

### Bootup Numlock State

Options: On, Off

### Keyboard Detect Warning

Options: Disabled, Enabled

### CSM Support

Options: Disabled, Enabled

### Boot Option Filter

Options: UEFI and Legacy, Legacy only, UEFI only

## ■ Security Menu

Table 14 Security Menu

BIOS SETUP UTILITY	
Main	Advanced
Boot	Security
Save & Exit	
<p>Password Description</p> <p>If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup</p> <p>If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights</p> <p>The password length must be in the following range:</p> <p>Minimum Length 3</p> <p>Maximum length 20</p> <p>Administrator Password</p> <p>User Password</p> <p>HDD Security Configuration:</p> <p>HDD 0: WDC WD1600BE</p>	<p>→ ← Select Screen</p> <p>↑↓ Select Item</p> <p>Enter: Select</p> <p>+ - Change Opt.</p> <p>F1: General Help</p> <p>F2: Previous Values</p> <p>F3: Optimized Defaults</p> <p>F4 Save &amp; Exit</p> <p>ESC Exit</p>
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## ■ Save & Exit Menu

Table 15 Save &amp; Exit Menu

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
Save Changes and Reset Discard Changes and Reset  Save Options Save Changes Discard Changes  Restore Defaults				→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
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### Save Changes and Exit

Exit system setup after saving the changes. Once you are finished making your selections, choose this option from the Exit menu to ensure the values you selected are saved to the CMOS RAM. The CMOS RAM is sustained by an onboard backup battery and stays on even when the PC is turned off. When you select this option, a confirmation window appears. Select [Yes] to save changes and exit.

### Discard Changes and Exit

Exit system setup without saving any changes. Select this option only if you do not want to save the changes that you made to the Setup program. If you made changes to fields other than system date, system time, and password, the BIOS asks for a confirmation before exiting.

### Discard Changes

Discards changes done so far to any of the setup values. This option allows you to discard the selections you made and restore the previously saved values. After selecting this option, a confirmation appears. Select [Yes] to discard any changes and load the previously saved values.

### Load Optimal Defaults

Load Optimal Default values for all the setup values. This option allows you to load optimal default values for each of the parameters on the Setup menus, which will provide the best performance settings for your system. The F9 key can be used for

this operation.

### **Load Failsafe Defaults**

Load Optimal Default values for all the setup values. This option allows you to load failsafe default values for each of the parameters on the Setup menus, which will provide the most stable performance settings. The F8 key can be used for this operation.

## Chapter 4

# Driver Installation

If your KPC-1260 does not come with an operating system pre-installed, you will need to install an operating system and the necessary drivers to operate it. After you have finished assembling your system and connected the appropriate power source, power it up using the power supply and install the desired operating system. You can download the drivers for the KPC-1260 from our website and install as instructed there. For other operating systems, please contact us.